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FIG. 1

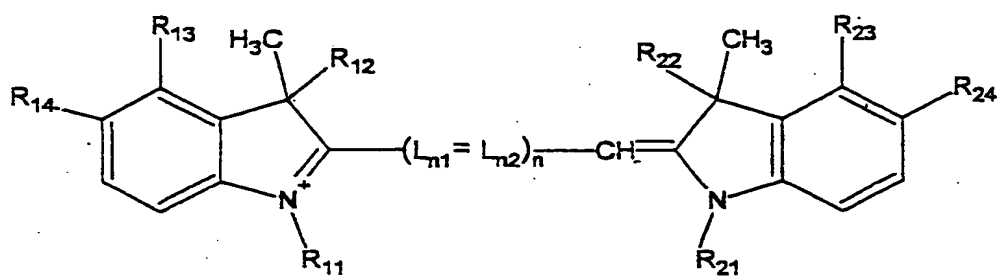


FIG. 2

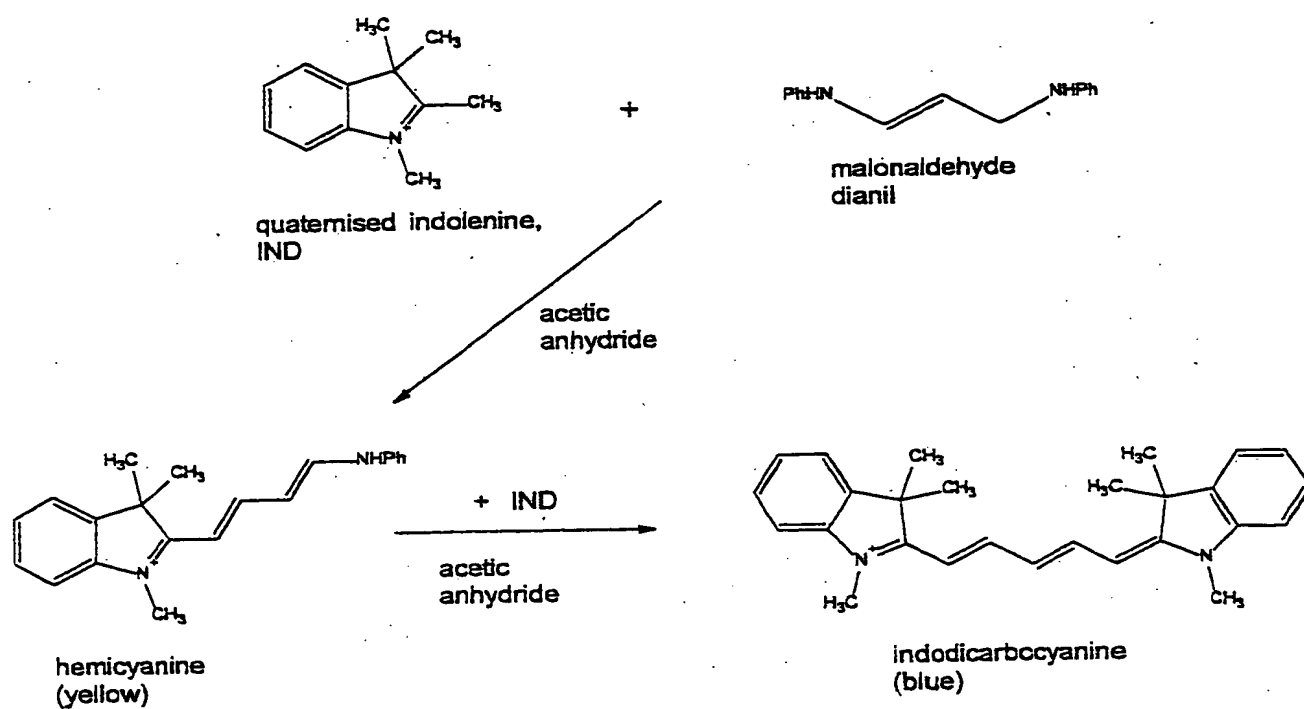


FIG. 3

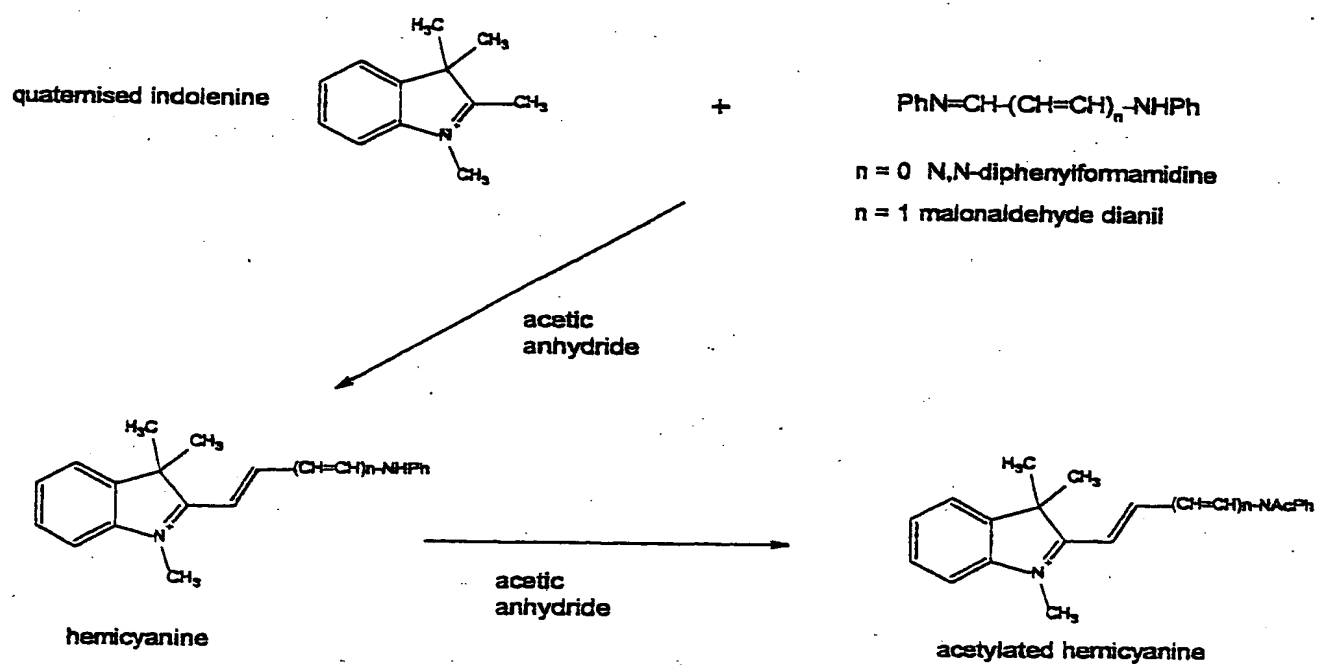
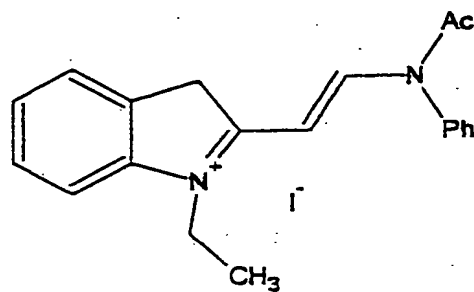
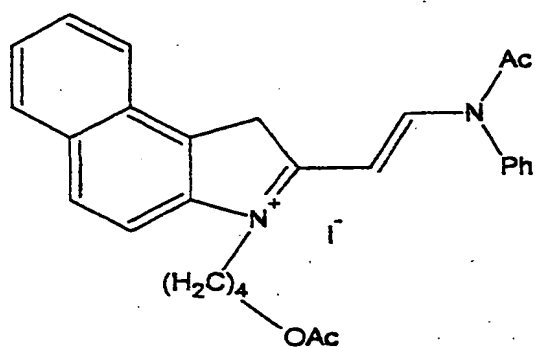


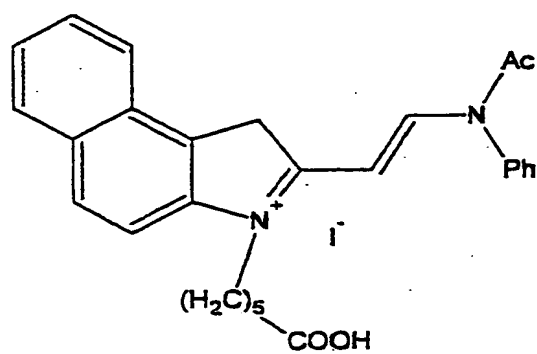
FIG. 4



1a



1b



1c

FIG. 5

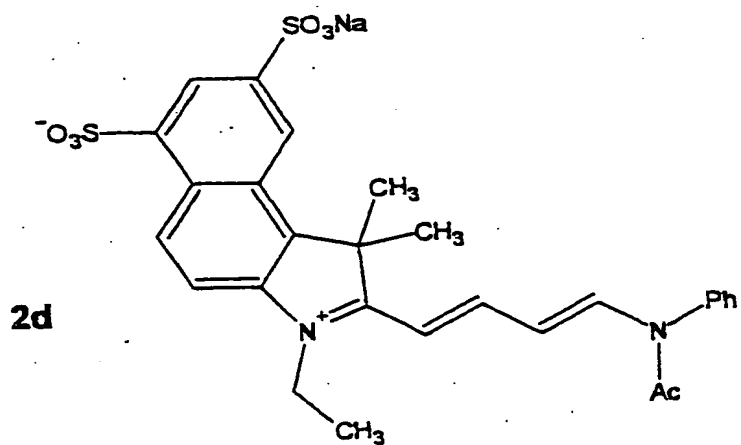
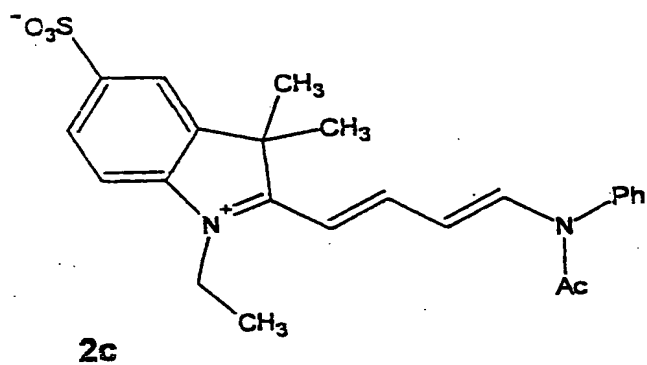
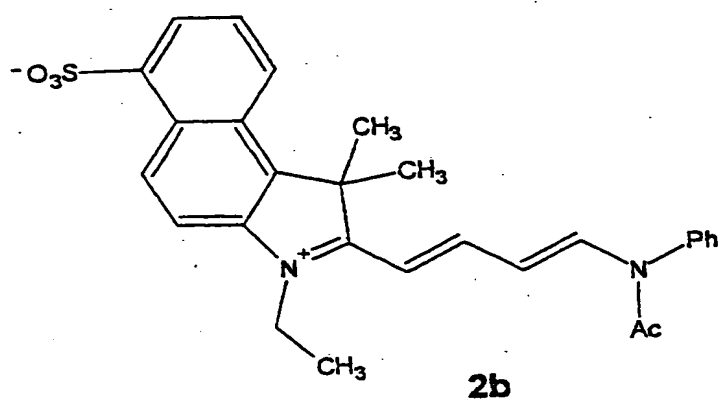
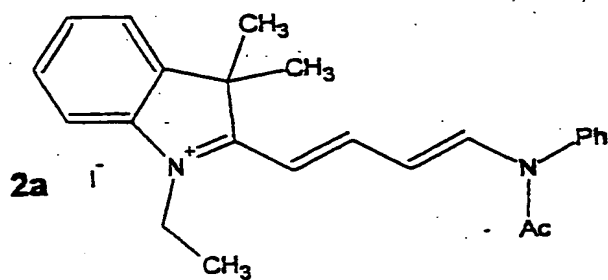


FIG. 6

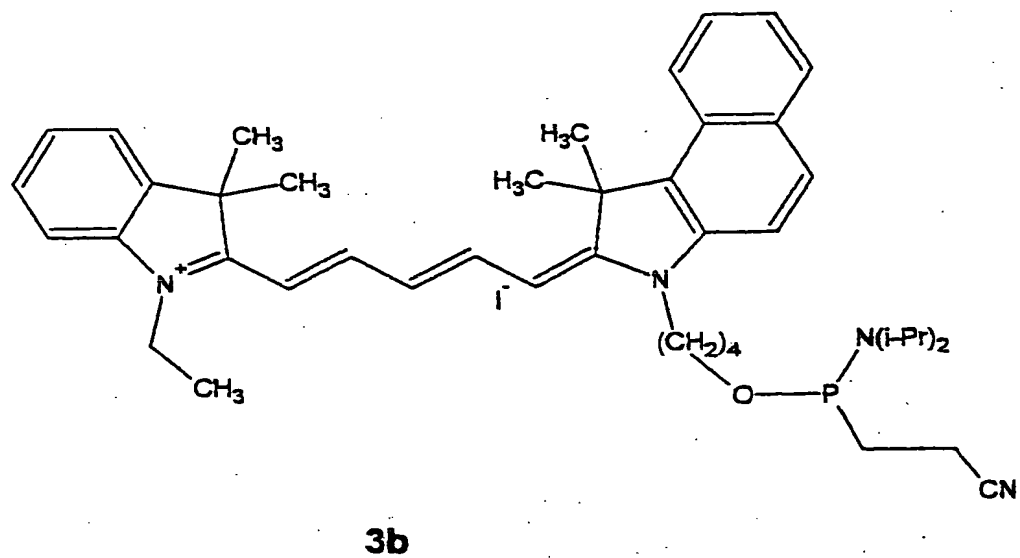
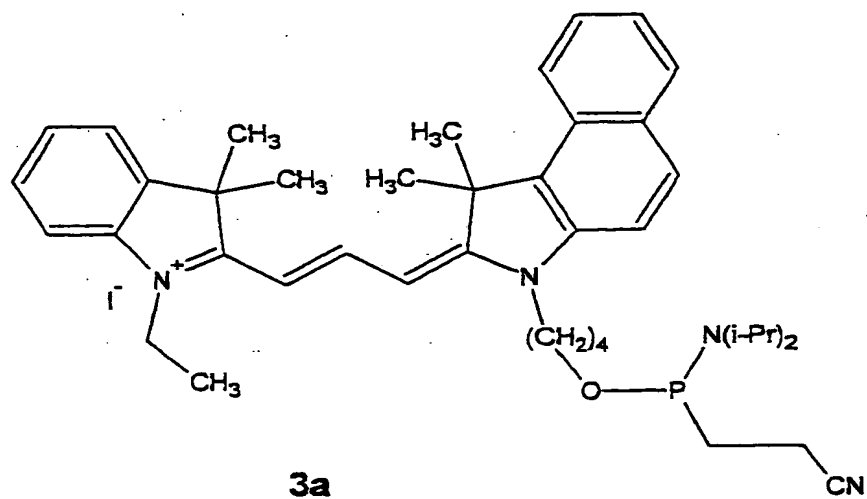


FIG. 7

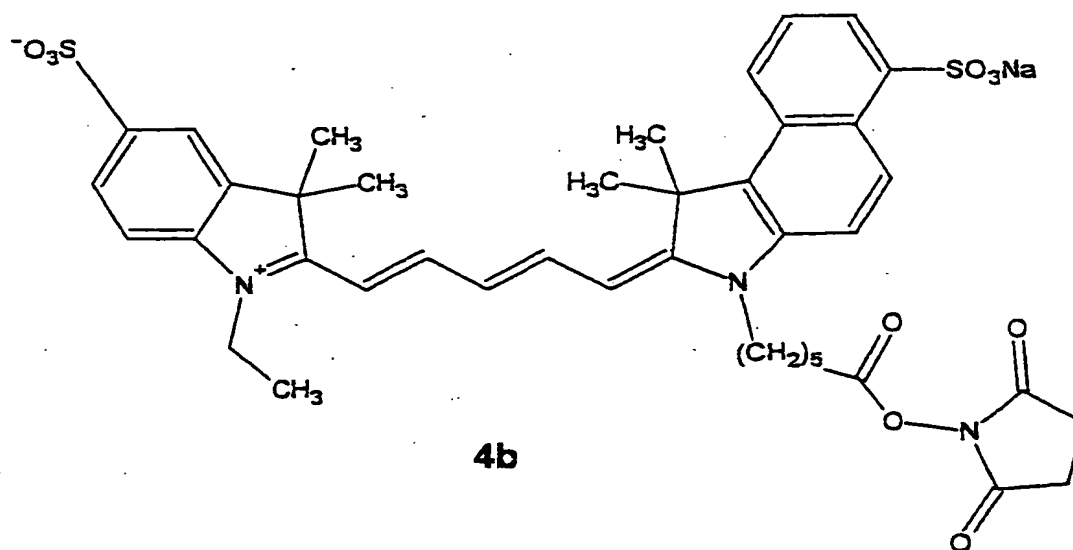
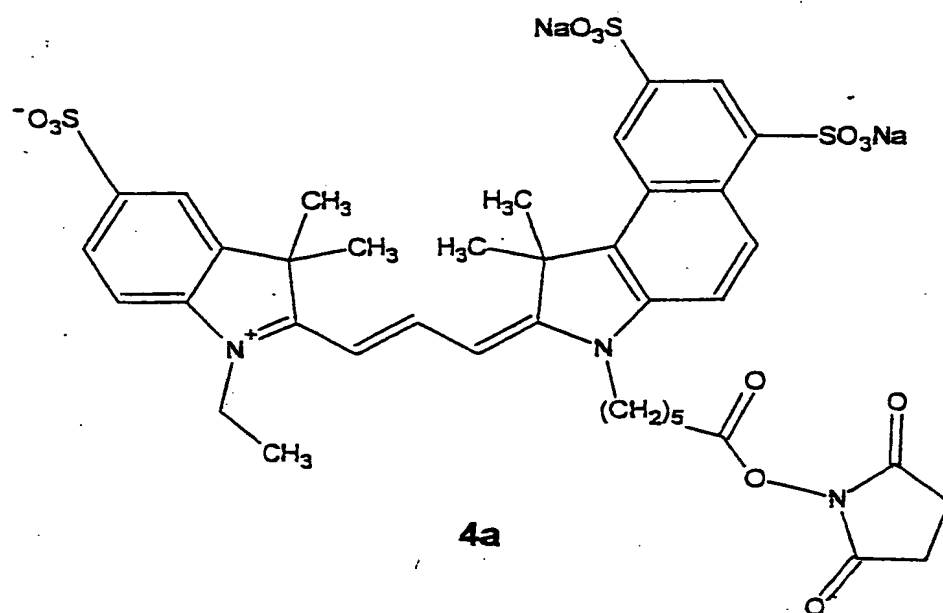


FIG. 8

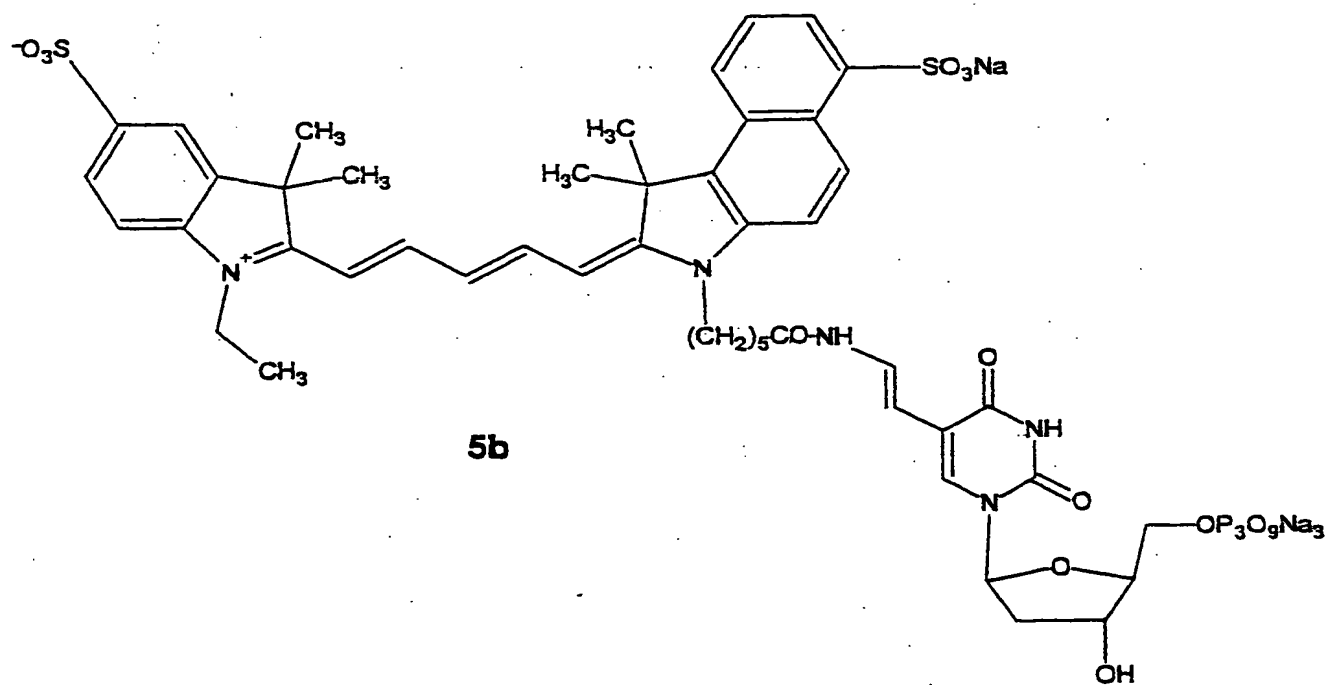
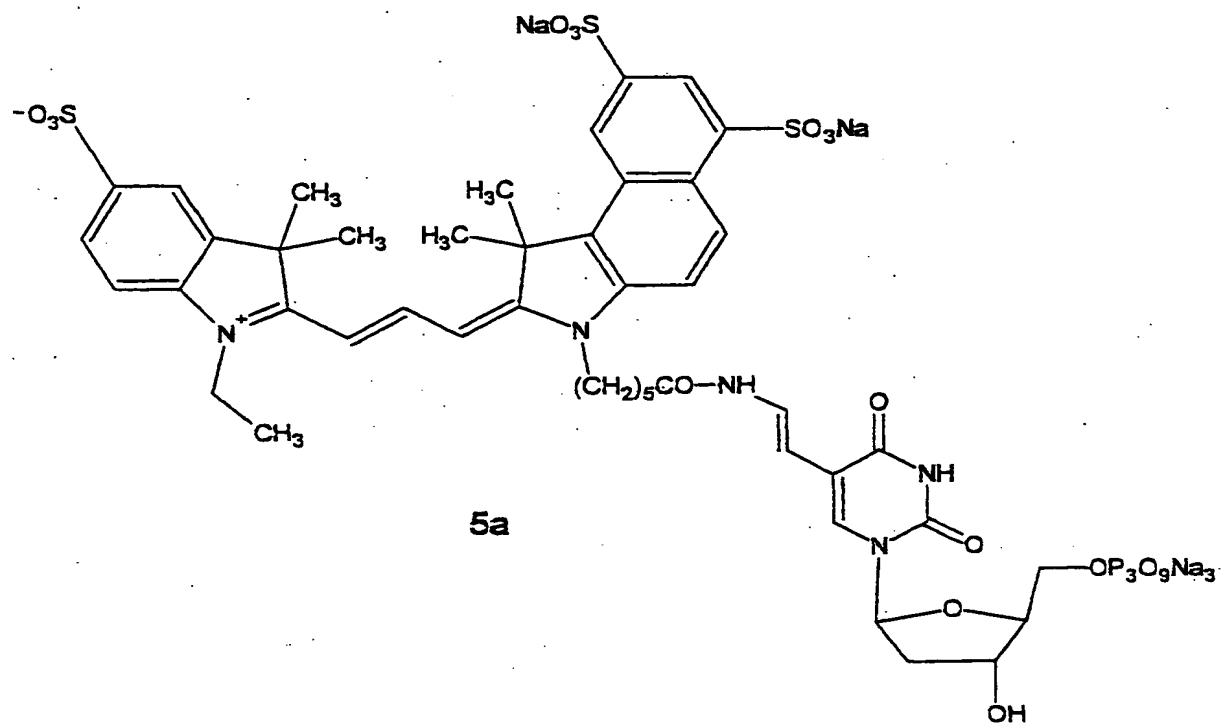
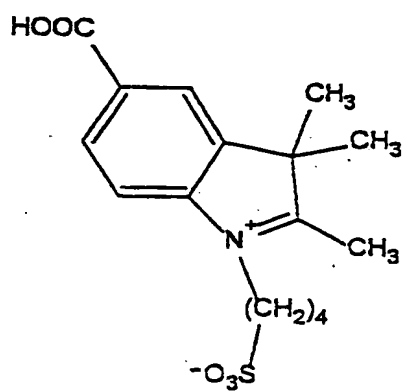
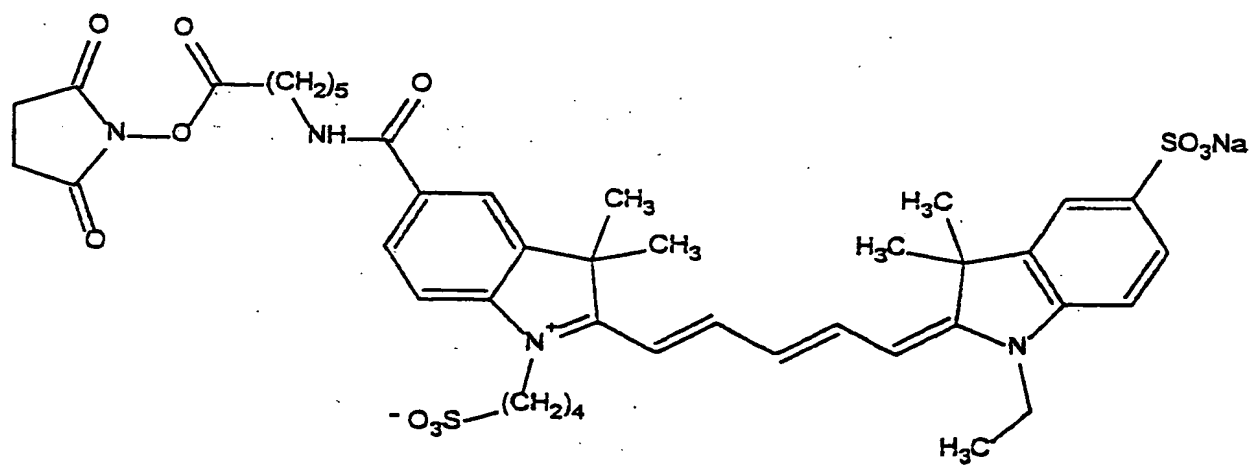


FIG 9



6a



6b

FIG. 10

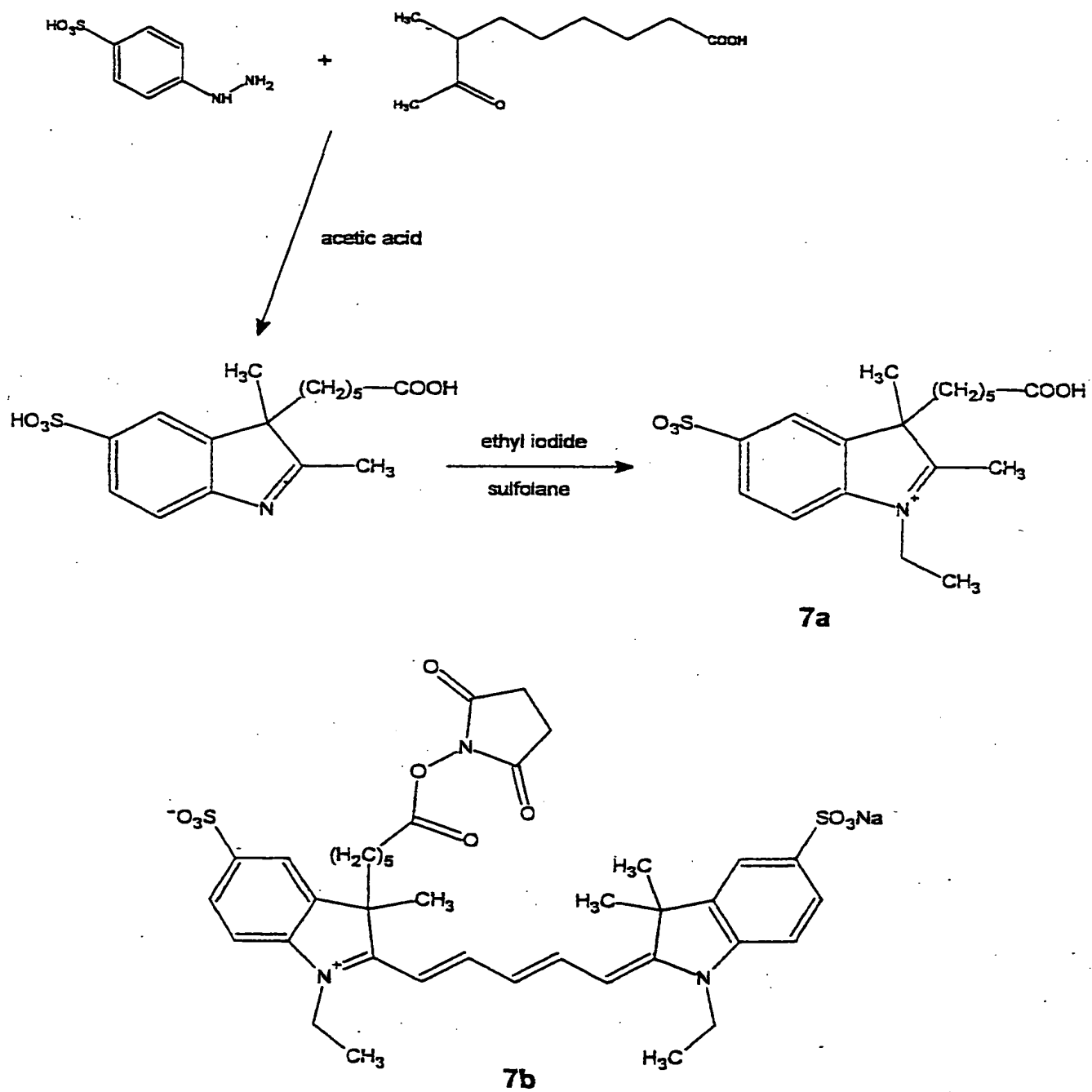
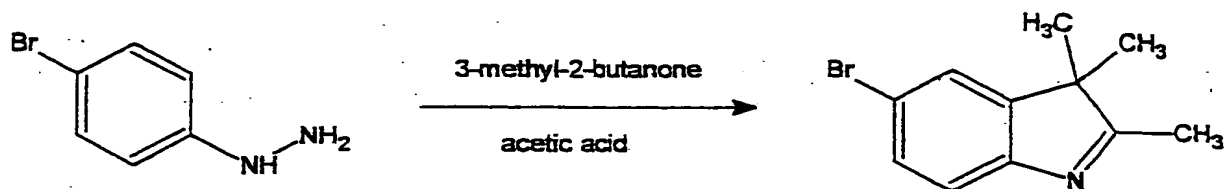


FIG. 11

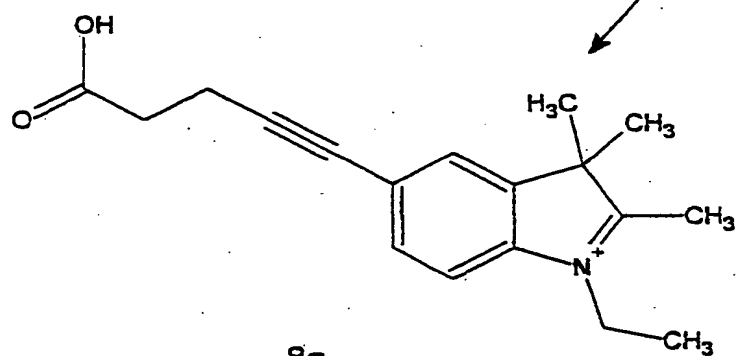


1. 4-pentynoic acid

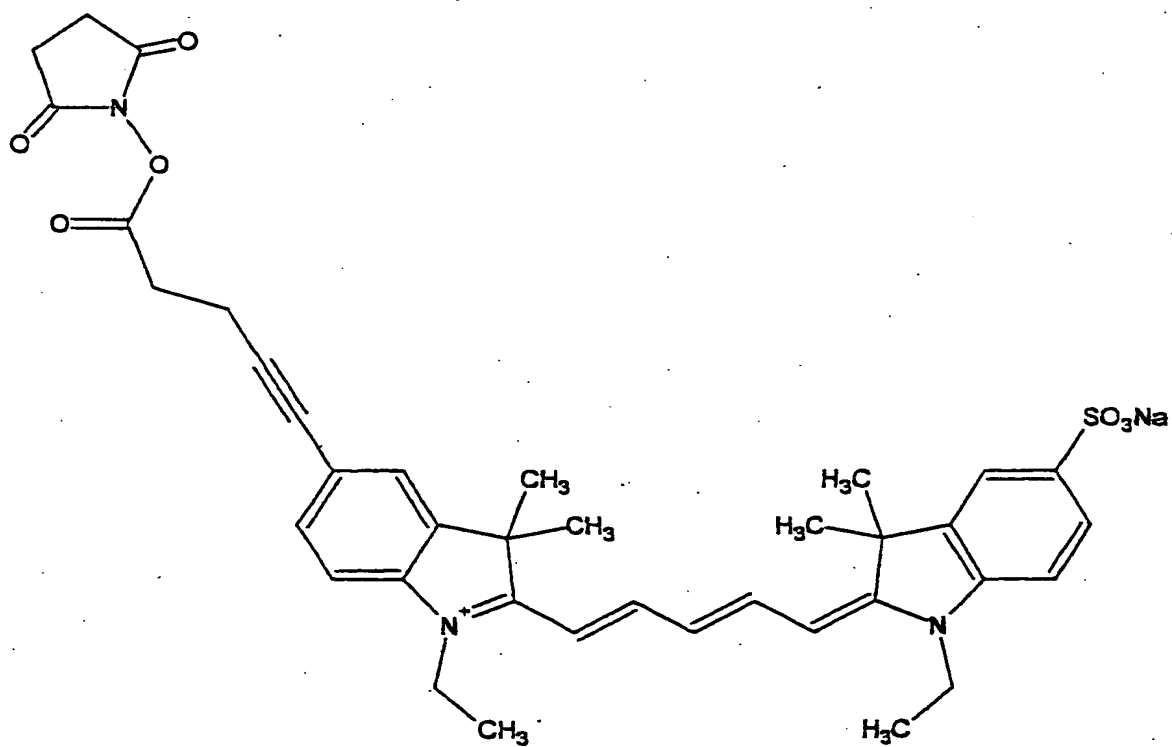
$\text{Pd}(\text{PPh}_3)_2\text{Cl}_2$, CuI

DMF /pyrrolidine

2. ethyl iodide
sulfolane



8a



8b